

CLAIMS

We claim:

1. A fluid supply device having a flexible portion midway in fluid supply piping, comprising:

5 first filter means that traps foreign matter in the fluid on the upstream side of the flexible portion; and

 second filter means that traps foreign matter in the fluid discharged from the flexible portion on the downstream side of the flexible portion.

2. The fluid supply device according to claim 1, wherein pressurizing means that
10 pressurizes fluid taken in from the upstream side and transmits the fluid to the downstream side is provided upstream of the flexible portion, and the first filter means is provided within the pressurizing means or between the pressurizing means and the flexible portion.

3. The fluid supply device according to claim 1 or claim 2, wherein the filter
15 accuracy of the second filter means is lower than that of the first filter means.

4. The fluid supply device according to any of claims 1 through 3, wherein the flexible portion is a bellows-shaped pipe.

5. The fluid supply device according to any of claims 1 through 4, wherein the pressurizing means is a fluid pump.

20 6. A fluid supply device having a flexible portion midway in fluid supply piping, comprising:

 first filter means that traps foreign matter in the fluid on the upstream side of the flexible portion; and

 deposition suppression means, provided between the first filter means and
25 the flexible portion, that suppresses deposition, in the flexible portion, of foreign matter in fluid that has passed the first filter means.

7. The fluid supply device according to claim 6, wherein the deposition suppression means is flow varying means that varies the flow of fluid introduced into the flexible portion.

5 8. The fluid supply device according to claim 7, wherein the flow varying means is a shutoff valve, and the flow is varied by controlling the opening and closing of the shutoff valve.

9. The fluid supply device according to claims 6 through 8, wherein the flexible portion is a bellows-shaped pipe.

10 10. The fluid supply device according to claims 6 through 9, wherein a fluid pump is provided between the first filter means and the flexible portion.

11. The fluid supply device according to claims 6 through 9, wherein a fluid pump having built-in first filter means is provided.

12. A fuel cell system incorporating the fluid supply device according to any one of claims 1 through 11 in a reaction gas supply system.

15 13. The fuel cell system according to claim 12, wherein the reaction gas supply system is a fuel gas supply system.